OIPE
SEP 20 2005
IAP18
PATENT & TRADEMARK OFFICE

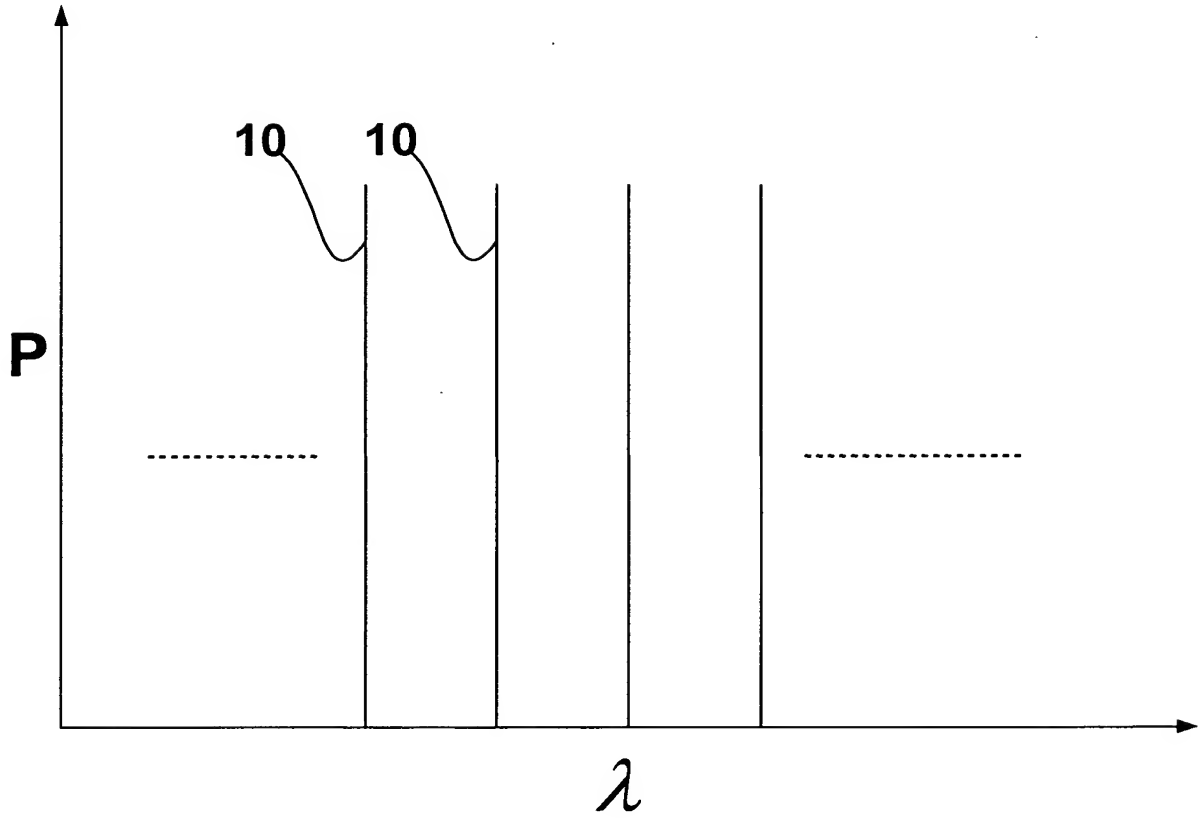

Figure 1A

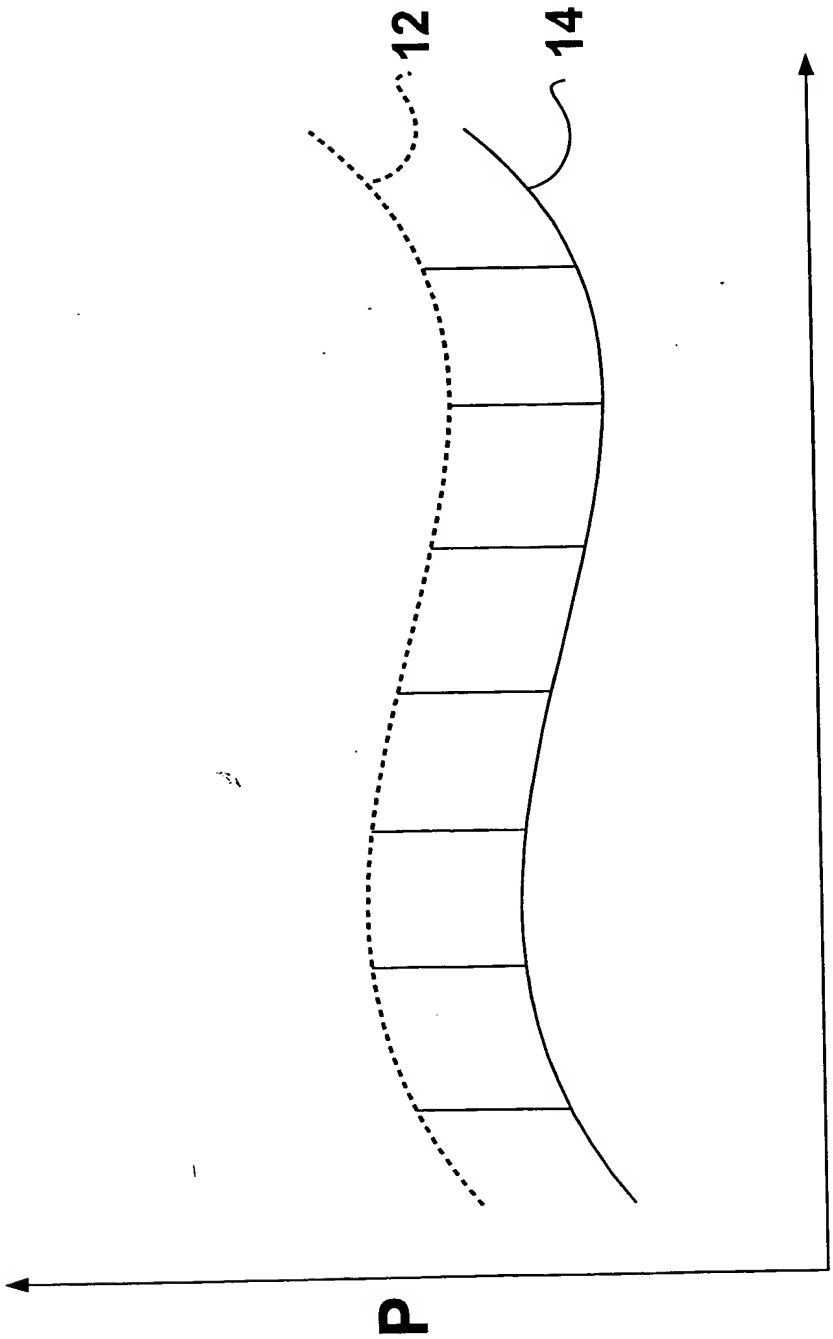

Figure 1B

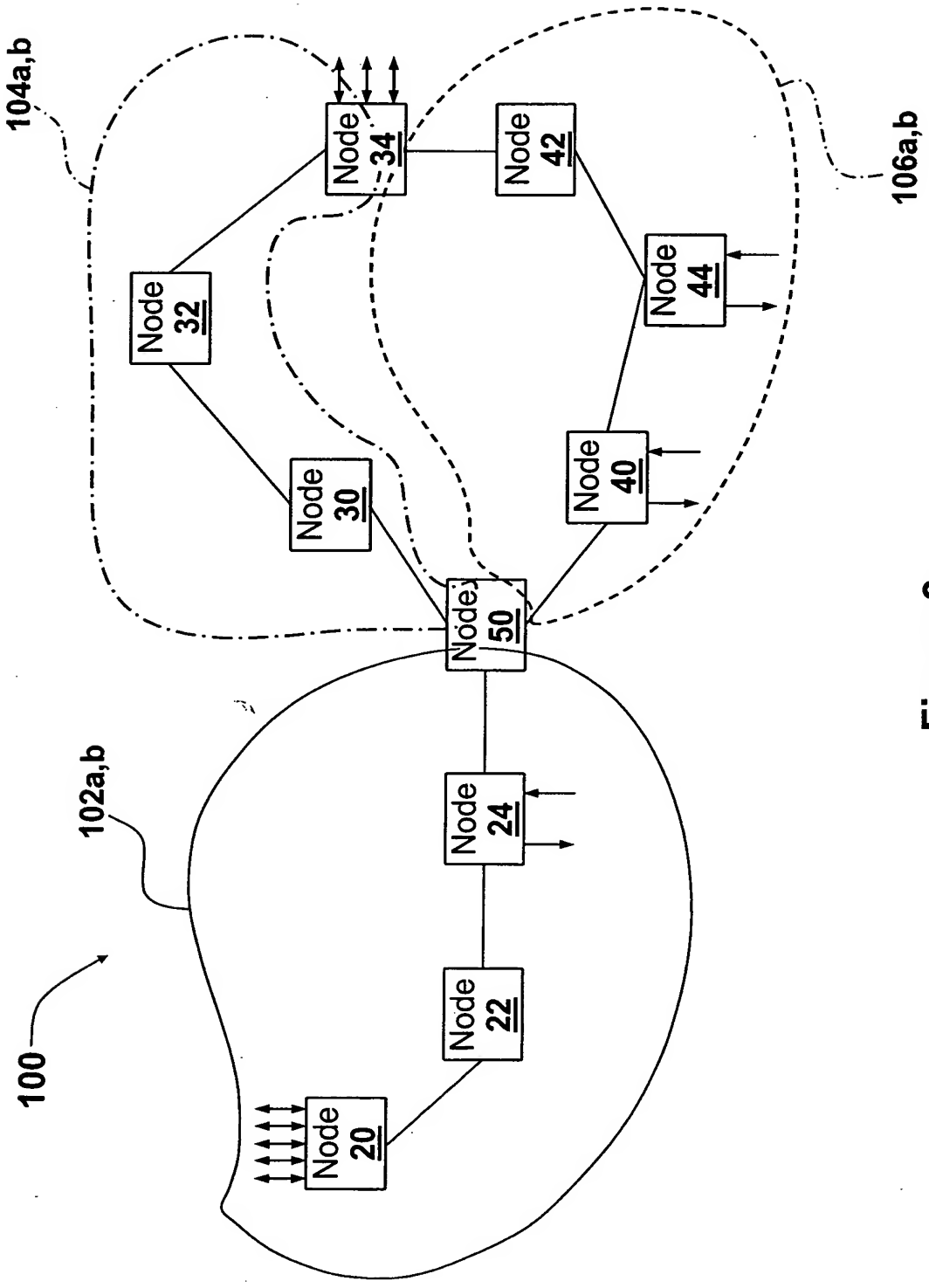
104a,b
106a,b
Node 34
Node 42
Node 32
Node 44
Node 30
Node 40
Node 50
102a,b
Node 24
Node 22
Node 20
100

Figure 2

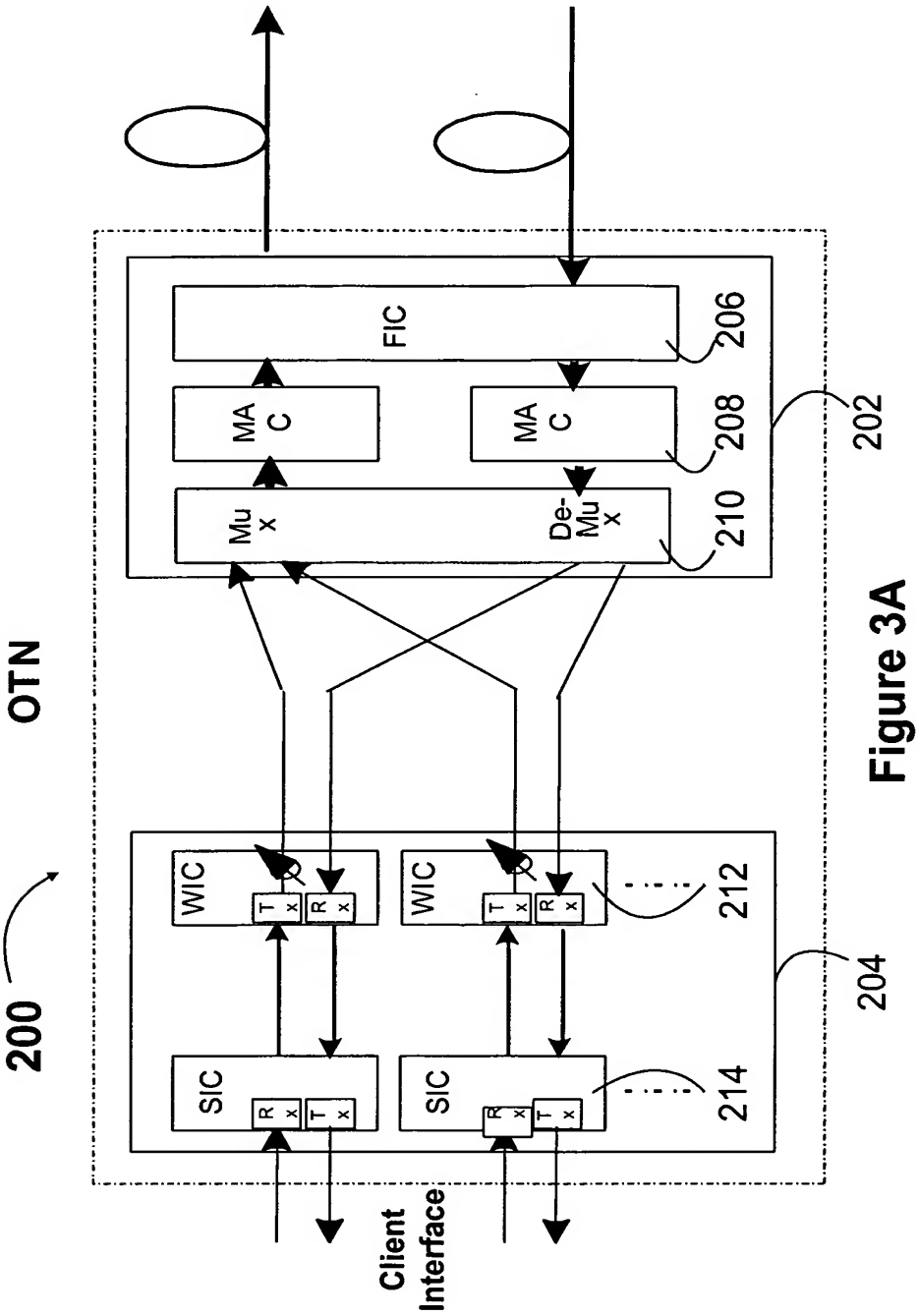
OTN
200
FIC
206
MA C
MA C
208
202
Mu x
De-Mu x
210
WIC
WIC
212
Tx
Rx
SIC
SIC
214
204
Client Interface

Figure 3A

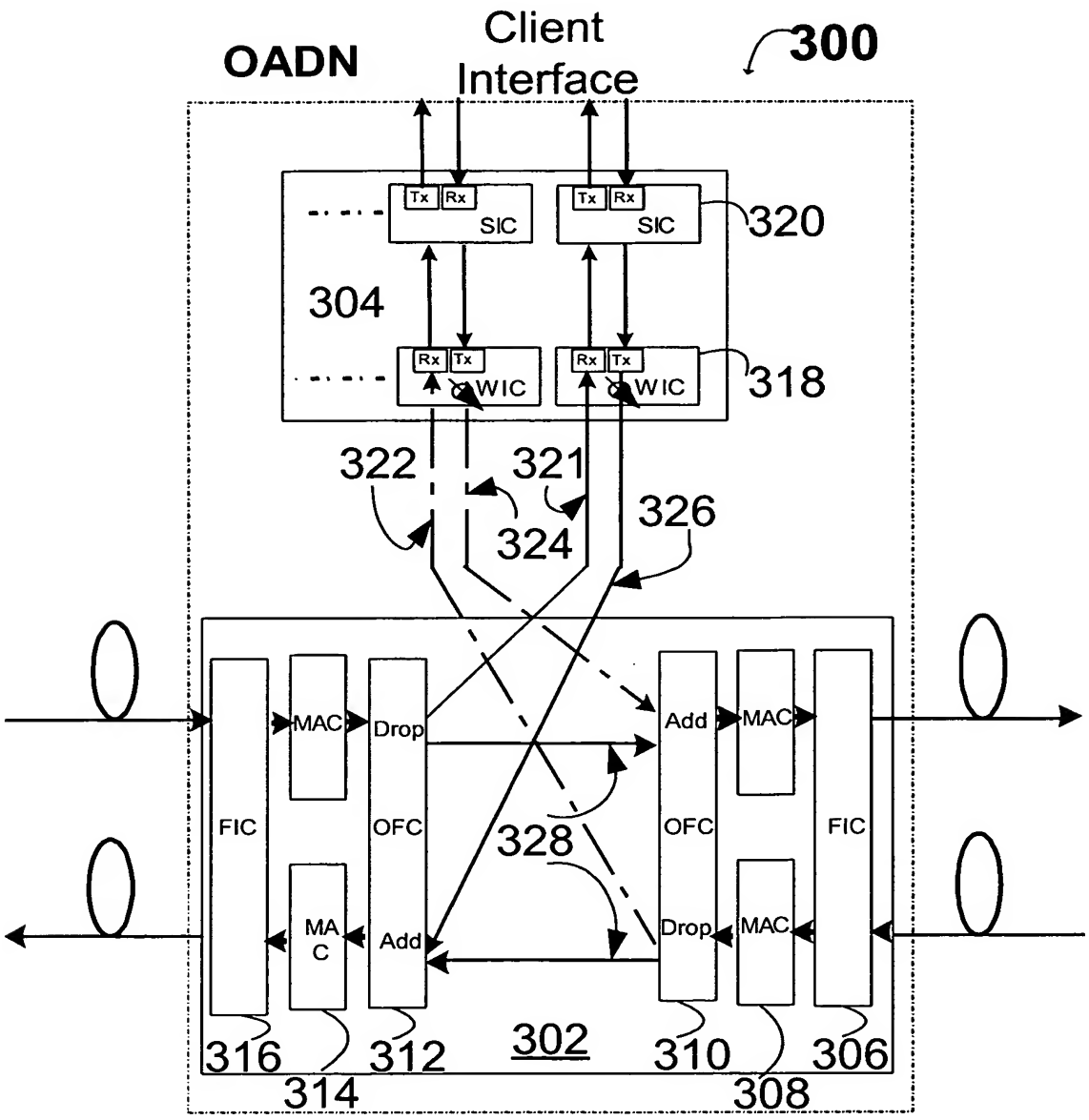
OADN
Client Interface
300
Tx
Rx
SIC
320
304
WIC
318
322
321
324
326
FIC
MAC
Drop
OFC
Add
328
MA C
316
312
302
310
306
314
308

Figure 3B

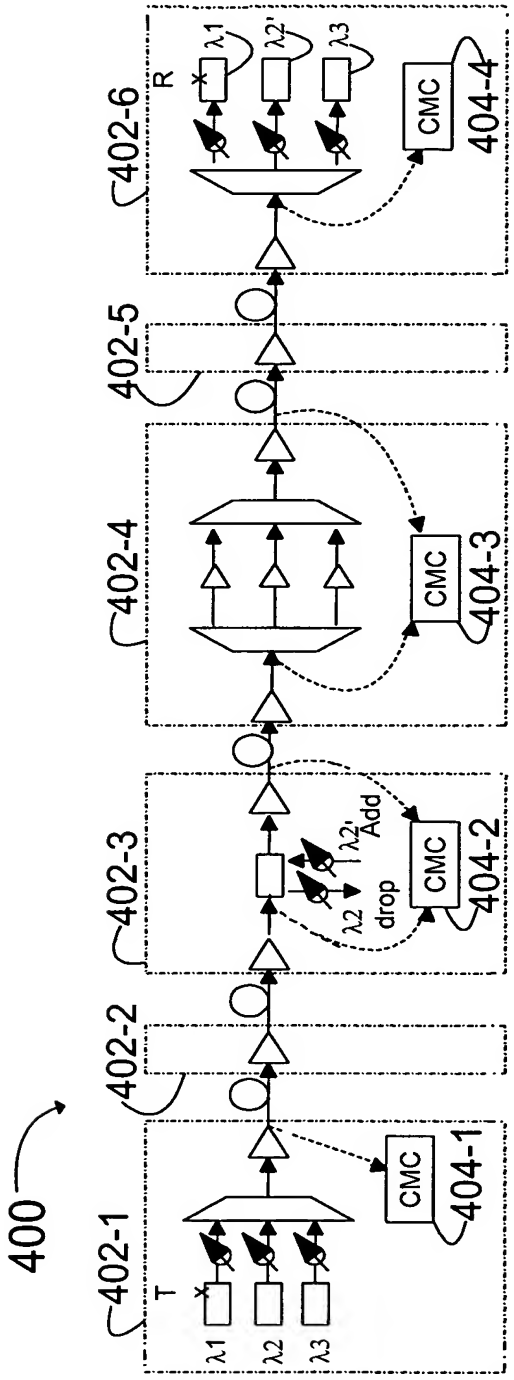
400
402-1
T
λ1
λ2
λ3
CMC
404-1
402-2
402-3
λ2'
Add
λ2
drop
CMC
404-2
402-4
CMC
404-3
402-5
402-6
R
λ1
λ2'
λ3
CMC
404-4

Figure 4

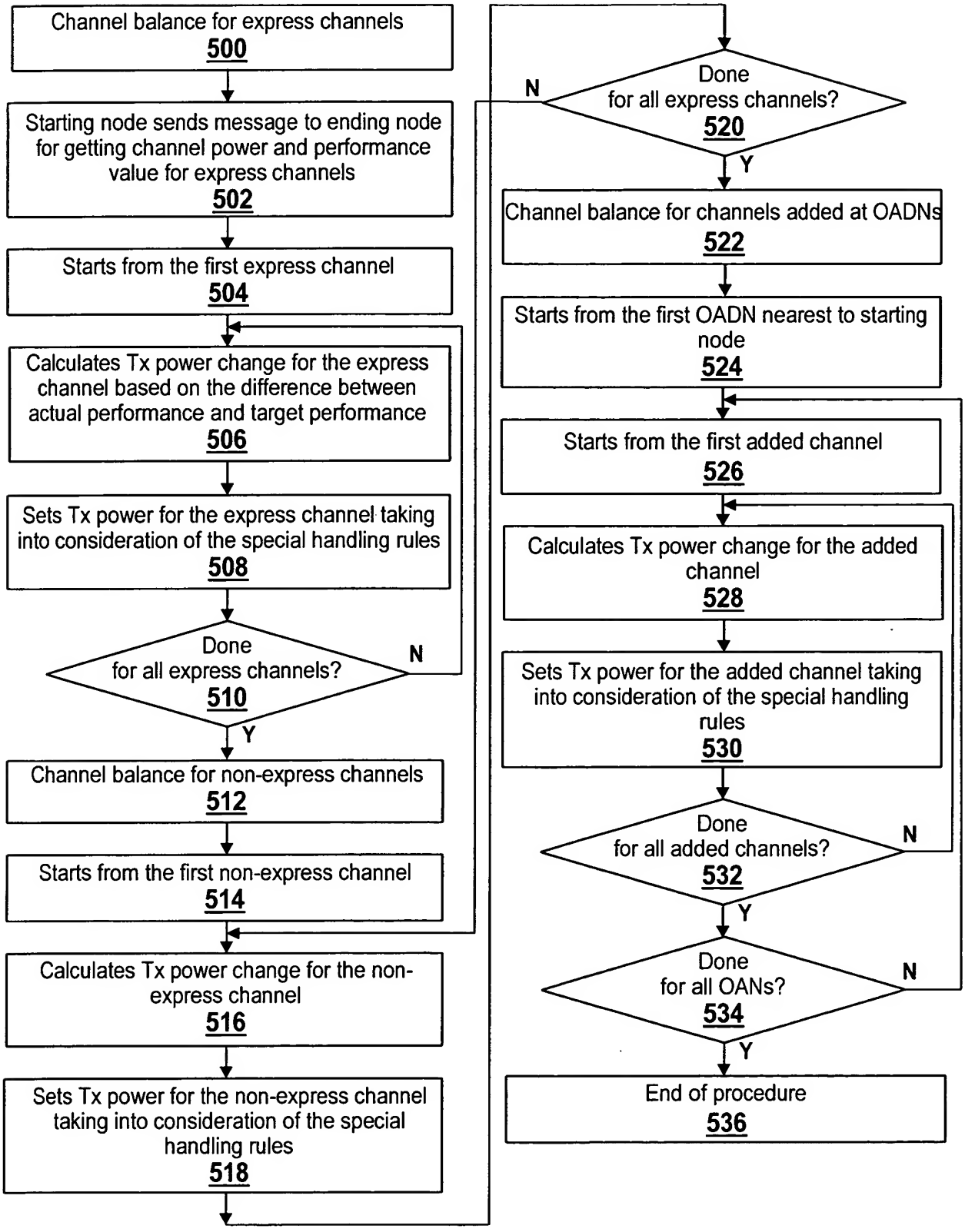
Channel balance for express channels
500
Starting node sends message to ending node for getting channel power and performance value for express channels
502
Starts from the first express channel
504
Calculates Tx power change for the express channel based on the difference between actual performance and target performance
506
Sets Tx power for the express channel taking into consideration of the special handling rules
508
Done for all express channels?
510
N
Y
Channel balance for non-express channels
512
Starts from the first non-express channel
514
Calculates Tx power change for the non-express channel
516
Sets Tx power for the non-express channel taking into consideration of the special handling rules
518
Done for all express channels?
520
N
Y
Channel balance for channels added at OADNs
522
Starts from the first OADN nearest to starting node
524
Starts from the first added channel
526
Calculates Tx power change for the added channel
528
Sets Tx power for the added channel taking into consideration of the special handling rules
530
Done for all added channels?
532
N
Y
Done for all OANs?
534
N
Y
End of procedure
536

Figure 5